

12' 14'

WALL.

FACE ALONG TOP

TOTAL 6-#6

√ма×

6′

8′

10'

12'

14'

16′

18′

STIFFENING BEAM DIMENSIONS AND REINFORCING

"A"= 1'-0"

20'

"B"= 1'-0"

30' 35'

"A"= 1'-10"

TOTAL 8-#9

"A"= 2'-2

"B"= 1'-6

"Δ"= 1'-6'

TOTAL 8-#8

16' 18'

TOTAL 6-#7

NO BEAM, PLACE 2-#6 IN EACH

WARPED WINGWALLS

20'

#7 @ 6

#4 @ 12

#4 @ 6

#5 @ 8

#4 @ 12

#7 @ 6

11"

18'

#7 @ 7

#4 @ 12

#4 @ 6

#4 @ 6

#4 @ 12

#6 @ 6

91/2

11"

#4 @ 12

Elev "a"

#4 @ 12-

#9

Const JOINT-

#4 @ 12 Max 1'-0" CUTOFF WALL

PARAPET

EXTEND CULVERT INVERT SLAB

WALL DIMENSIONS AND REINFORCING

#5 @ 5

#4 @ 12

#4 @ 8

#4 @ 10

#4 @ 12

#5 @ 6

71/2"

Vary "D" of warped wall uniformly from that at cutoff wall to that at culvert, for maximum "H" > 12'-0". Where abrasion is anticipated increase apron thickness to 7" minimum to provide 2" minimum reinforcement coverage. Dimensions "L", "W", "M", "M", "M", Elevation "a", "Angle of flare", and end "Slope" (as applicable) are shown on the plans.

#6 @ 6

#4 @ 12

#4 @ 8

#4 @ 7

#4 @ 12

#6 @ 7

91/21

#5 @ 7

#4 @ 12

#4 @ 8

#4 @ 12

#4 **@** 5

6"

NOTES: Walls designed for 2'-0" surcharge; earth density = 120 pcf; equivalent fluid pressure = 36 pcf.

SPACERS 2'-0" INTO APRON

Elev

ELEMENT SLOPE

1/4:1

11/4:1

"D" AT CUTOFF WALL

"D" AT CULVERT

FRONT FACE Reinf

REAR FACE Reinf

FRONT FACE Reinf

REAR FACE Reinf

FRONT FACE Reinf

REAR FACE Reinf

#4 @ 12

-1'-0" CUTOFF WALL

- Const JOINT

-#4 @ 12 Max

L 2'-0"

OR LESS

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 8

#4 @ 7

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 8

6"

"a"

POST MILES TOTAL PROJECT

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n. C59976

Exp. 6-30-18

CIVIL

CAN DUTAN

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STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

BOX CULVERT

WARPED WINGWALLS

NO SCALE

D86A

May 31, 2018

PLANS APPROVAL DATE

"SLOPE" OF FILL OR CHANNEL

#4 7 @ 12 FRONT FACE, BEND

2'-6" INTO WALL OR APRON

3-#9 /

#4 @ 12, BACK FACE

PARAPET

B-

SLOPE APRON TO MATCH, CHANNEL AND INVERT

2-#4 IF ALTERNATIVE BOTTOM IS USED